



atgaggggccccctgctcagatTTTTGGATTCTTGGTCAGGAGACGTTGT  
-----  
tactcccggggacgagtcctaaaaacctaagaaccagtcctctgcaaca  
ACTAGTCGACATGAGGGCCCCCTGCTCAGTTTTTTGGCTTCTTG-3'

A A C AA  
MKV4 PRIMER

49 agaaatgagaccgtctattcagttcctggggctcttggtgttctggcttcatgg  
-----  
tctttactctggcagataagtcaaggacccccgagaacaacaagaccgaagtacc  
[M R P S I Q F L G L L L F W L H G  
LEADER

103 tgctcagtgtagacatccagatgacacagtcctccatcctcactgtctgcatctct  
-----  
acgagtcacactgtaggtctactgtgtcagaggtaggagtgacagacgtagaga  
A Q C][D I Q M T Q S P S S L S A S L  
FR1

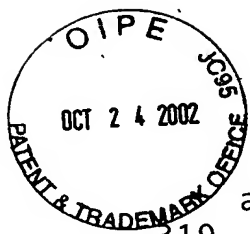
157 gggaggcaaagtcaccatcacttgcaagacaagccaagacattaacaagtatat  
-----  
ccctccggtttcagtggttagtgaacgttctgttcgggttctgtaattgttcatata  
G G K V T I T C][K T S Q D I N K Y M  
CDR1

211 ggcttggtaccaacacaagcctggaaaacgtcctaggctgctcatacattacac  
-----  
ccgaaccatgggttggttcggaccttttgcaggatccgacgagtatgtaatgtg  
A][W Y Q H K P G K R P R L L I H][Y T  
FR2

265 atctgcattacagccaggcatcccatcaaggttcagtggaagtgggtctggggag  
-----  
tagacgtaatgtcgggtccgtagggtagttccaagtcaccttcacccagaccctc  
S A L Q P][G I P S R F S G S G S G R  
CDR2

FIG.1A

O.G. FIG.	SUBCLASS
	CLASS
APPROVED BY	DRAFTSMAN



APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

319 agattattccttcaacatcagcaacctggagcctgaagatattgcaacttatta  
-----  
tctaataaggaagttgtagtcgttggacctcggacttctataacgttgaataat

D Y S F N I S N L E P E D I A T Y Y  
FR3

373 ttgtctacagtatgataatctgtggacgttcggtggaggcaccaagctggaaat  
-----  
aacagatgtcatactattagacacctgcaagccacctccgtgggttcgaccttta

C][L Q Y D N L W T][F G G G T K L E I  
CDR3 FR4

MOUSE KAPPA PRIMER

3'-GTAGAAGGGTGGTAGGTGGGCCCT

427 caaacgggctgatgctgcaccaactgtatccatcttcccaccatccacccggga  
-----  
gtttgcccgactacgacgtggttgacataggtagaagggtggttaggtgggccct

K]

AGG-5'

tcc

481 ---

agg

FIG.1B



O.G. FIG.	SUBCLASS
	CLASS
APPROVED BY	DRAFTSMAN

1 atgaaatgcagctgggtcatgttcttcctgatggcagtggttacaggg  
-----  
tactttacgtcgacccagtacaagaaggactaccgtcaccaatgtccc  
ACTAGTCGACATGAAATGCAGCTGGGTCATCTTCTTC-3'

G

MHV1 PRIMER

[M K C S W V M F F L M A V V T G

LEADER

49 gtcaattcagaggttcagctgcagcagtcctggggcagagcttgtgaagccaggg  
-----  
cagttaagtctccaagtcgacgtcgtcagaccccgctctgaacacttcggtccc  
V N S][E V Q L Q Q S G A E L V K P G  
FR1

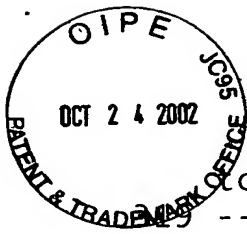
103 gcctcagtcgaagttgtcctgcacagcttctggcttcaacattaaagacacctat  
-----  
cggagtcagttcaacaggacgtgtcgaagaccgaagttgtaatttctgtggata  
A S V K L S C T A S G F N I K][D T Y  
CDR1

157 atacactgtgtgaagcagaggcctgaacagggcctggagtggaaggatt  
-----  
tatgtgacacacttcgtctccggacttgtcccggacctcacctaaccttcctaa  
I H][C V K Q R P E Q G L E W I G][R I  
FR2

211 gatcctgcgaatggttataactaaatatgacccgaagttccagggaaggccact  
-----  
ctaggacgcttaccaatatgatattatactgggcttcaagggtcccgttccgggtga  
D P A N G Y T K Y D P K F Q G][K A T  
CDR2

265 ataacagctgacacatcctccaacacagcctacctgcagctcagcagcctgaca  
-----  
tattgtcgactgtgtaggagggttgtgtcggatggacgtcgagtcgtcggactgt  
I T A D T S S N T A Y L Q L S S L T  
FR3

FIG. 2A



O.G. FIG.		SUBCLASS
CLASS		
APPROVED	BY	DRAFTSMAN

373 cctgaggacactgccgtctattttctgtgctagagagggatattatggtaactac  
-----  
agactcctgtgacggcagataaagacacgatctctccctataataaccattgatg  
S E D T A V Y F C A R][E G Y Y G N Y  
CDR3  
ggggctctatgctatggactactgggggtcaaggaacctcagtcaccgtctcctca  
-----  
ccccagatacgateacctgatgaccccagttccttggagtcagtggcagaggagt  
G V Y A M D Y][W G Q C T S V T V S S]  
MOUSE GAMMA-1 PRIMER  
3'-GTAGACAGATAGGTGACCGGGCCCTAGG-5  
427 gccaaaacgacacccccatctgtctatccactggcccgggatcc  
-----  
cggtttttgctgtgggggtagacagataggtgaccgggcccctagg  
S S]

FIG. 2B

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APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY		
DRAFTSMAN		

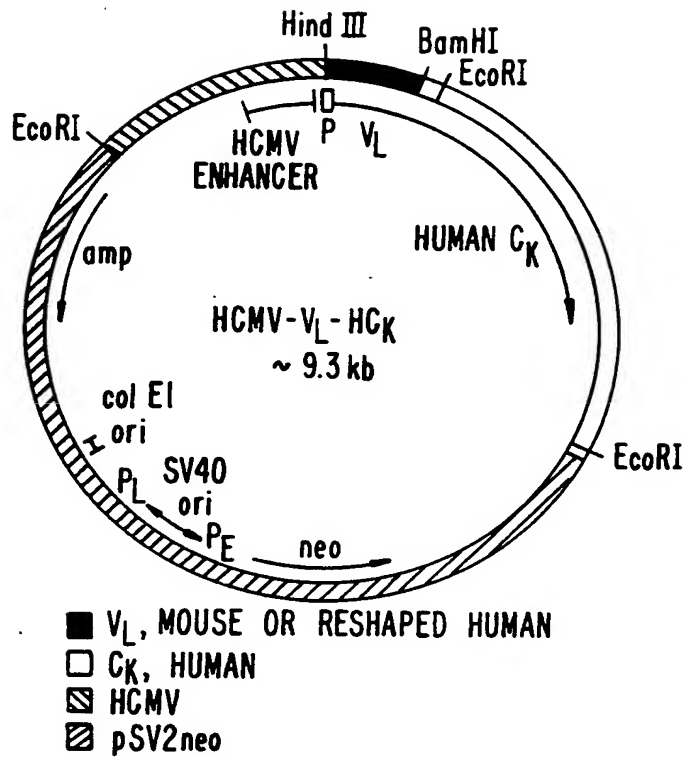


FIG. 3A.

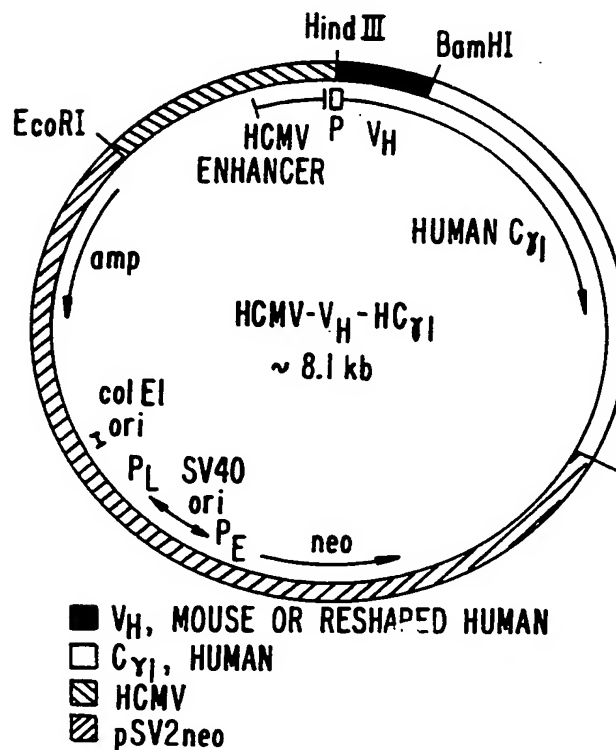


FIG. 3B.

BT60" 6E25T60

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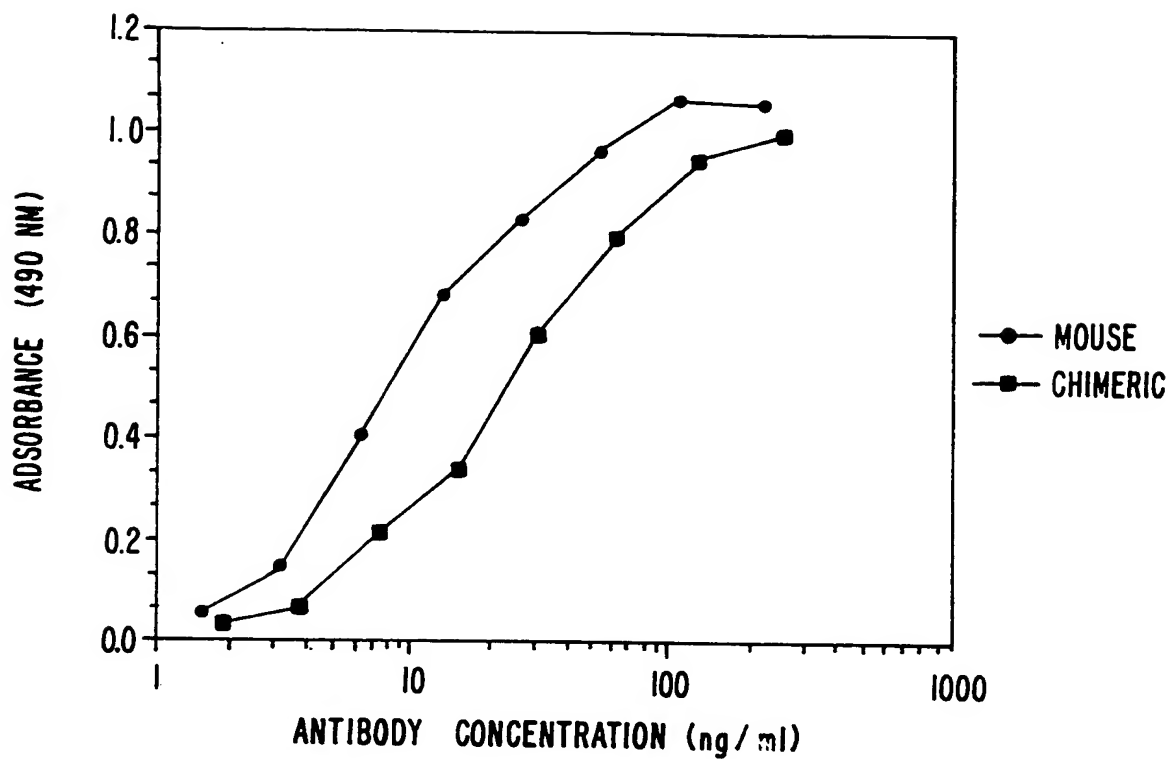


FIG. 4.

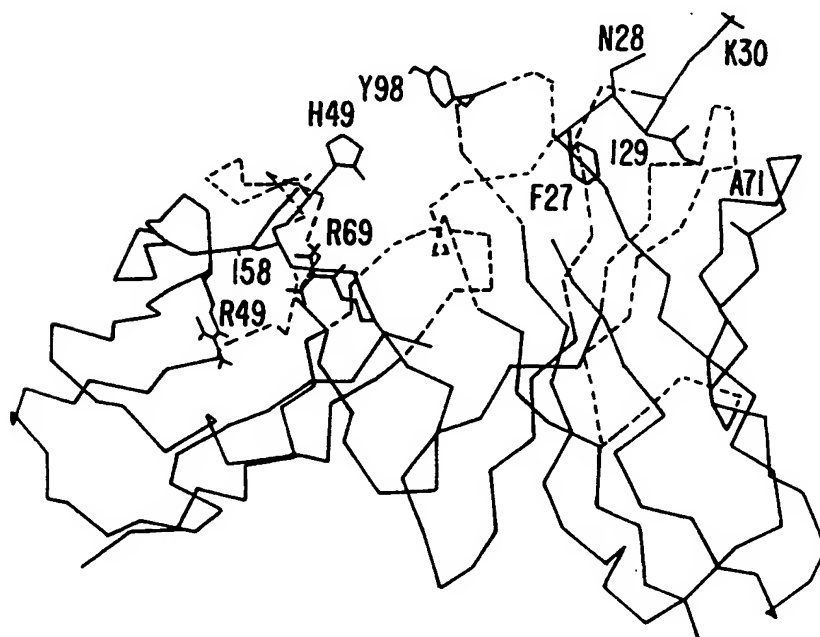


FIG. 5.

APPROVED BY DRAFTSMAN	O.G. FIG. CLASS	SUBCLASS
-----------------------------	--------------------	----------

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FR1 CDR1 FR2 CDR2  
1 2 3 4 5  
123456789012345678901234 567890123456789 0123456  
\* \*\*\*\*\* \* \*\*\*  
21.6 DIQMTQSPSSLSASLGKVTITC KTSQDINKYMA WYQHKPGKRPRLLIH YTSALQP  
REI DIQMTQSPSSLSASVGDVRTITC QASQDIKIYN WYQQTGKAPKLLIY EASNLOA  
La DIQMTQSPSSLSASVGDVRTITC KTSQDINKYMA WYQQTGKAPRLLIH YTSALQP  
Lb -----R-----

FR3 CDR3 FR4  
6 7 8 9 10  
78901234567890123456789012345678 901234567 8901234567  
\* \* \*\*\*\*\*  
21.6 GIPSRFSGSGGRDYSFNISNLEPEDIATYIC LQYDNL-WT FGGGKLEIK  
REI GVPSRFSGSGGTDYFTTISLQPEDIAITYC QQYQSLPYT FGQGTKLQIT  
La GIPSRFSGSGGRDYFTTISLQPEDIAITYC LQYDNL-WT FGQGTKEIK  
Lb -I-----R-----VE-K

FIG. 6.

REF ID: A625160

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

	FR1	CDR1	FR2	CDR2
	1	2	3	4
	123456789012345678901234567890	123456789012345678901234567890	123456789012345678901234567890	123456789012345678901234567890123456
21.6	EVQLVQSGAEVKKPGASVKLSCTASGFNIK	DTYIH	CVKQRPQGLEWIG	RIDPANGYTKYDPKFQG
	***** ** *			
	***			
2*CL	QVQLVQSGAEVKKPGASVKVSKASGYTFT	SYAMH	WVRQAPGQRLEWVG	WINAGNGNTKYSQKFQG
Ha	QVQLVQSGAEVKKPGASVKVSKASGFNIK	DTYIH	WVRQAPGQRLEWMB	RIDPANGYTKYDPKFQG
Hb	-----FNIK	-----G	-----	-----
Hc	-----FNIK	-----	-----	-----

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	FR3	CDR3	FR4
	7	8	9
	67890123456789012ABC345678901234	567890ABCDEF12	34567890123
21.6	KATITADTSSNTAYLQLSSLTSED	TAVYFCAR	EGYYGNYGVYAMDY
	* WGQTSVTVSS		
2*CL	RVTITRDTASATAYMELSSLRSED	TAVYICAR	GGYYGSGS----
	NY WGQGLVTVSS		
Ha	RVTITADTSATAYMF	.RSED	TAVYICAR
	EGYYGNYGVY?DY WGQGLVTVSS		
Hb	-----A	-----	-----
Hc	-----A	-----F	-----

FIG. 7.

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APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

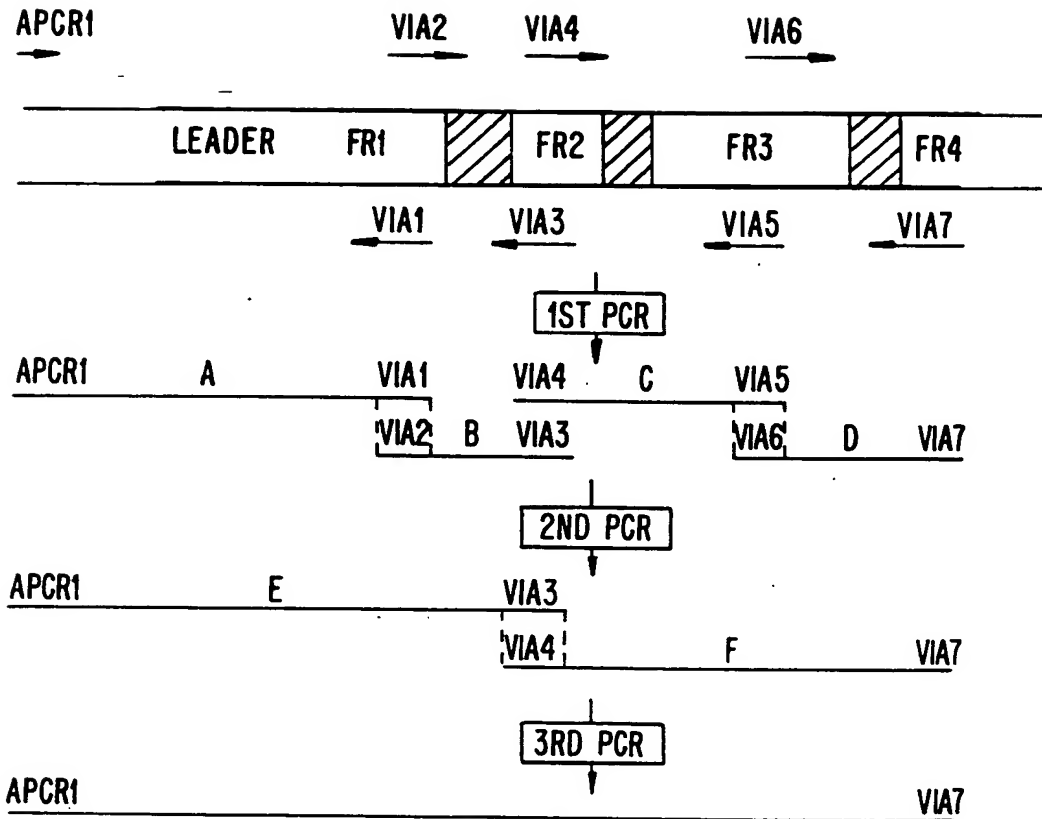


FIG. 8.

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APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

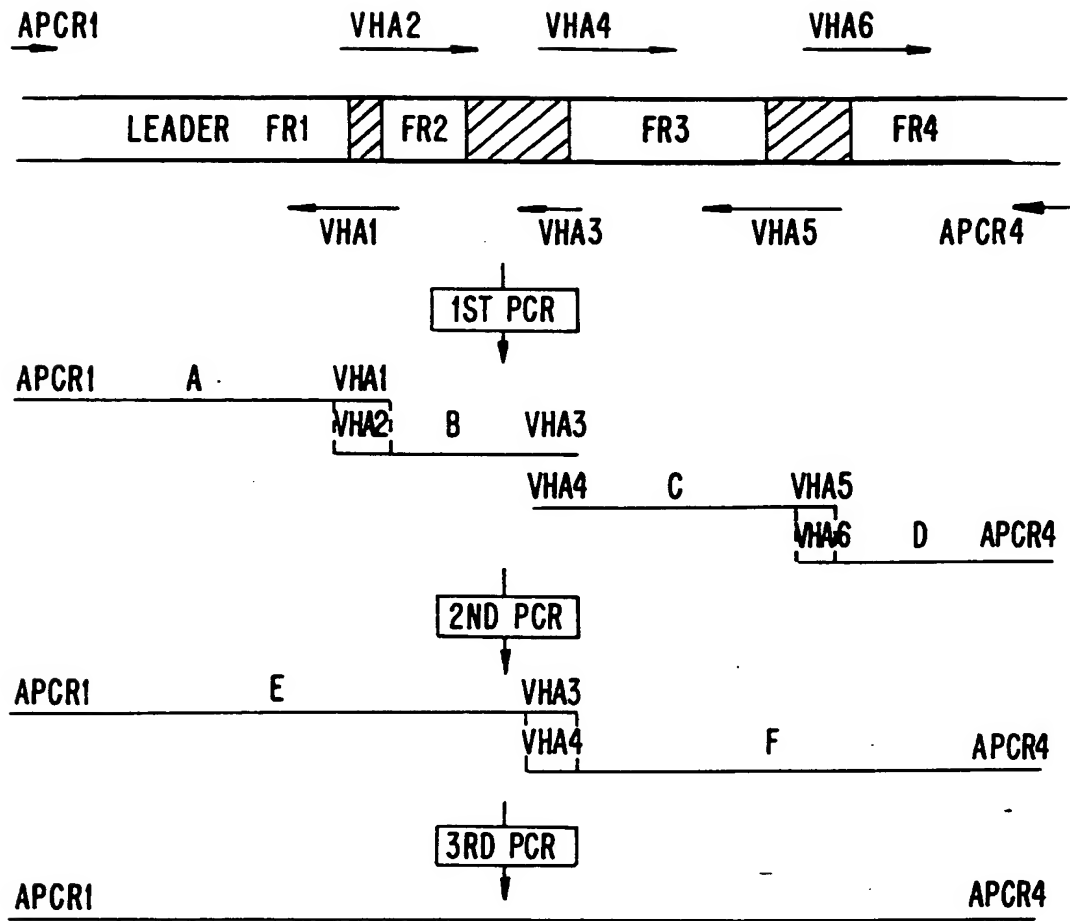


FIG. 9.



APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

HindIII KOZAK SEQUENCE

1 aagcttgccgcccacccatgagaccgtctattcagttcctggggctcttggtgttc  
-----  
ttcgaacggcggttggtactctggcagataagtcaaggacccccgagaacaacaag  
[ M R P S I Q F L G L L L F  
LEADER  
55 tggcttcatgggtgctcagtggtgacatccagatgacacagttccatcctcactg  
-----  
accgaagtaccacgagtcacactgtaggtctactgtgtcagaggtaggagtgc  
W L H G A Q C][D I Q M T Q S P S S L  
FR1  
109 tctgcatctGTAggaGATAGAgtcaccatcacttgcaagacaagccaagacatt  
-----  
agacgtagaCATcctCTATCTcagtggtagtgaacgttctgttcggttctgtaa  
S A S V G D R V T I T C][K T S Q D I  
CDR1  
163 aacaagtatatggcttggtaccaaCAGACAcctggaaaaGCTcctaggctgctc  
-----  
ttgttcatataccgaaccatgggtGTCTGTggaccttttCGAggatccgacgag  
N K Y M A][W Y Q Q T P G K A P R L L  
FR2  
217 atacattacacatctgcattacagccaggcatcccatcaagggttcagtggaagt  
-----  
tatgtaatgtgtagacgtaatgtcgggtccgtagggtagttccaagtcaccttca  
I H][Y T S A L Q P][G I P S R F S G S  
CDR2  
271 gggctctgggagagattatACTtttACCatcagcAGCctgCAGcctgaagatatt  
-----  
cccagaccctctctaataTGAaagTGGtagtcgTCGgacGTCggacttctataa  
G S F R D Y T F T I S S L Q P E D I  
FR3

FIG. 10A

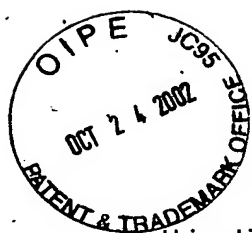


APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

325 gcaacttattattgtctacagtatgataatctgtggacgttcggtCAAggcacc  
-----  
cgttgaataataacagatgtcatactattagacacctgcaagccaGTTccgtgg  
A T Y Y C][L Q Y D N L W T][F G Q G T  
CDR3 FR4

SPLICE DONOR SITE BamHI  
aagGTGgaaatcaaacgtgagtggatcc  
379 -----  
ttcCACcttttagtttgcactcacctagg  
K V E I K]

FIG. 10B



HindIII KOZAK SEQUENCE

1 AAGCTTGCCGCCACCATGGACTGGACCTGGCGCGTGTTTTGCCTGCTCGCCGTG  
-----  
TTCGAACGGCGGTGGTACCTGACCTGGACCGCGCACAAAACGGACGAGCGGCAC

[M D W T W R V F C L L A V  
LEADER

55 GTCCTGGGGCCACAGCCAGGTGCAACTAGTGCAGTCCGGCGCCGAAGTGAAG  
-----  
CGAGGACCCCGGGTGTGCGTCCACGTTGATCACGTCAGGCCGCGGCTTCACTTC

A P G A H S][Q V Q L V Q S G A E V K

109 AAACCCGGTGCTTCCGTGAAAGTCAGCTGTAAAGCTAGCGGTttcaacattaaa  
-----  
TTTGGGCCACGAAGGCACTTTCAGTCGACATTTCGATCGCCAaagttgtaattt

K P G A S V K V S C K A S G F N I K][  
FR1

163 gacacctatatacacTGGGTTAGACAGGCCCCtGGCCAAaGGCTgGAGTGGATg  
-----  
ctgtggatatatgtgACCCAATCTGTCCGGgGaCCGGTTtCCGAcCTCACCTAc

D T Y I H][W V R Q A P G Q R L E W M  
CDR1 FR2

217 GGaaggattgatcctgcgaatggttataactaaatatgacccgaagttccagggc  
-----  
CCttcctaactaggacgcttaccaatatgatttatactgggcttcaaggtcccg

G][R I D P A N G Y T K Y D P K F Q G][  
CDR2

271 cgggtcACCatcACCgcaGACACCTCTgccagcACCGCCTACATGGAACGTGTC  
-----  
gcccagTGGtagTGGcgtCTGTGGAGAcggtcgTGGCGGATGTACCTTGACAGG

R V T I T A D T S A S T A Y M E L S  
FR3

FIG. 11A



APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

325 AGCCTGCGCTCCGAGGACACTGCAGTCTACTACTGCGCCagagagggatattat  
-----  
TCGGACGCGAGGCTCCTGTGACGTCAGATGATGACGCGGtctctccctataata  
  
S L R S E D T A V Y Y C A R][E G Y Y  
  
379 ggtaactacgggggtctatgctatgGACTAcTGGGGtCAaGGaACCCTTGTCAACC  
-----  
ccattgatgccccagatacgatacCTGATgACCCCaGTtCCtTGGGAACAGTGG  
  
G N Y G V Y A M D Y][W G Q G T L V T  
CDR3 FR4  
  
SPLICE DONOR SITE BamHI  
GTctccTCAGGTGAGTGGATCC  
433 -----  
CAGaggAGTCCACTCACCTAGG  
  
V S S]

FIG. 11B

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APPROVED	O.G. FIG.	CLASS	SUBCLASS
BY			
DRAFTSMAN			

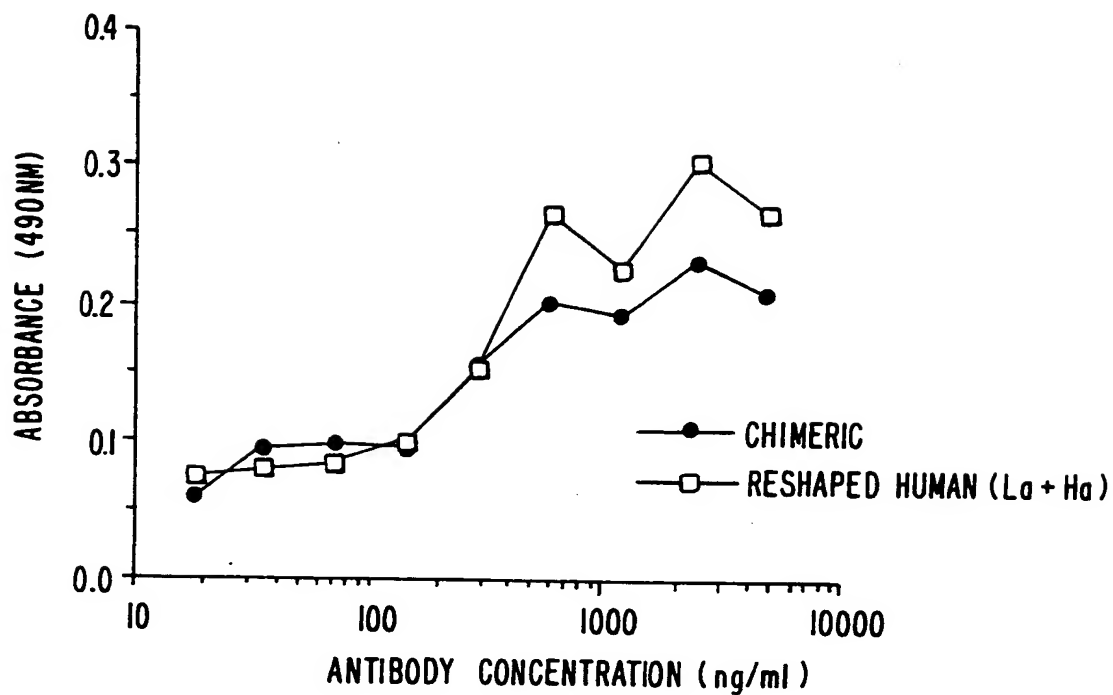


FIG. 12A.

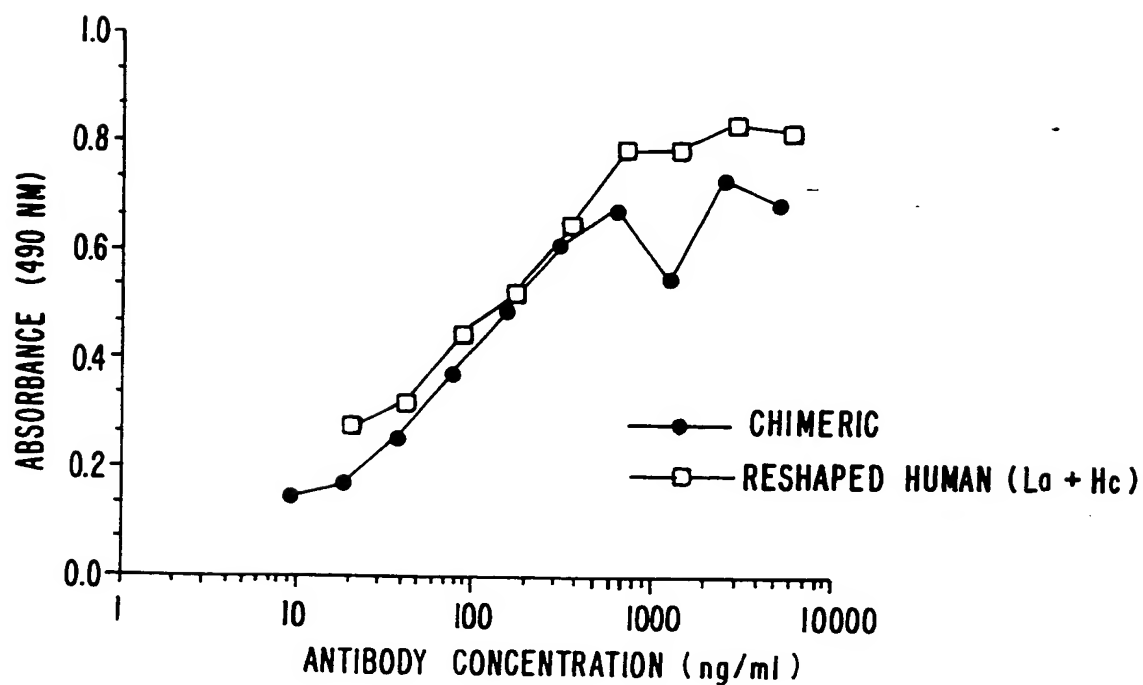
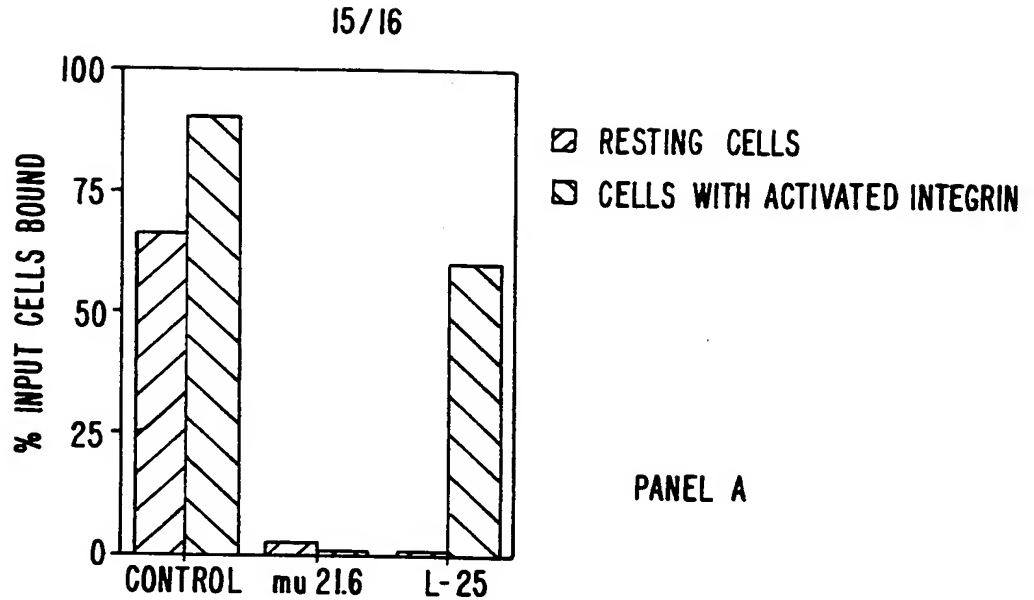


FIG. 12B.

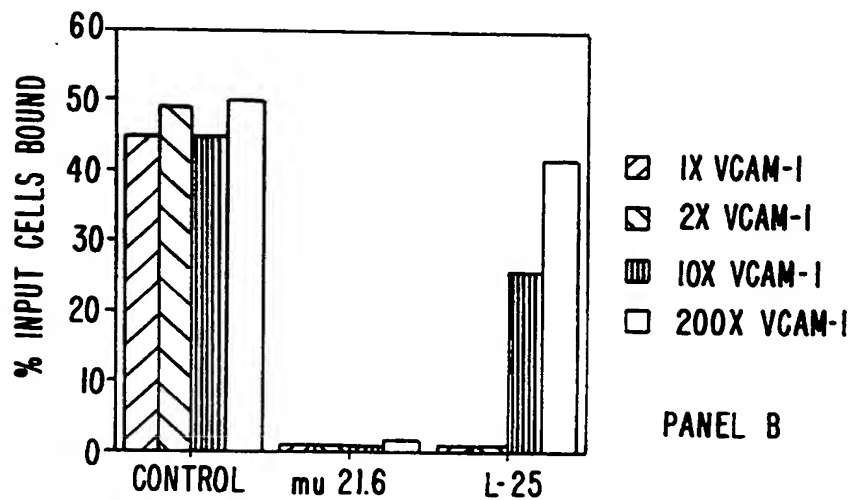
09/155739 "6E/55160"

APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	



PANEL A

FIG. 13A.



PANEL B

FIG. 13B.

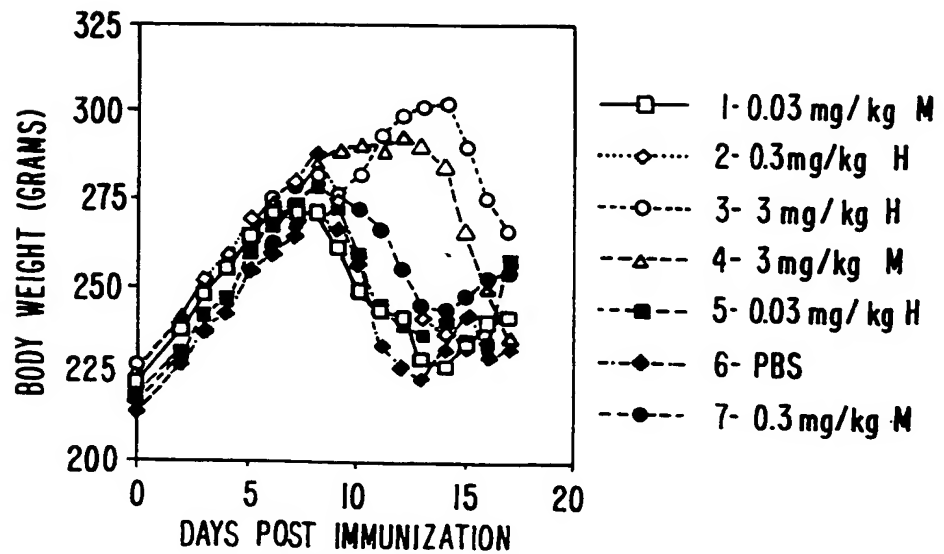


FIG. 14.

ESTERO "6E255T60



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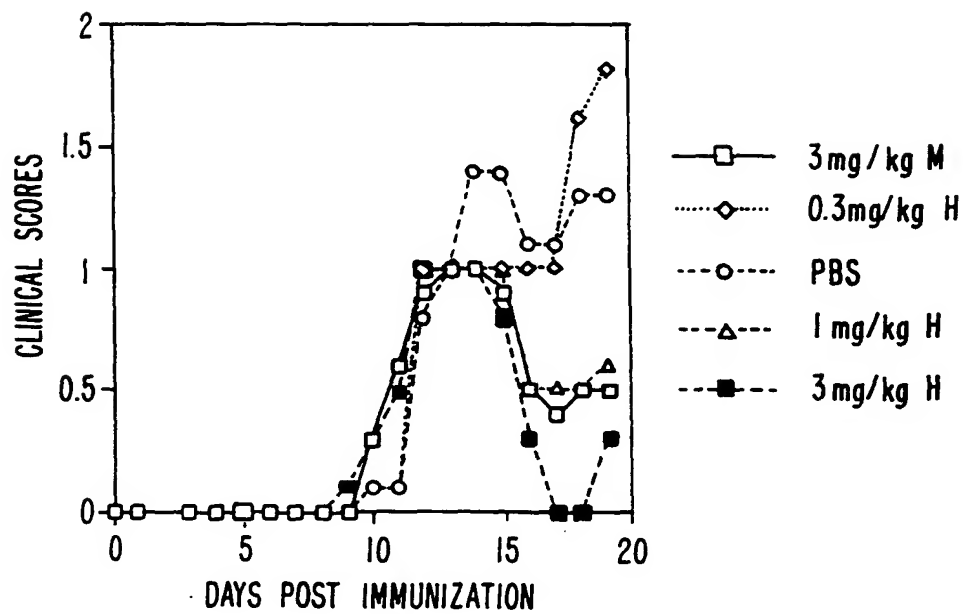


FIG. 15.

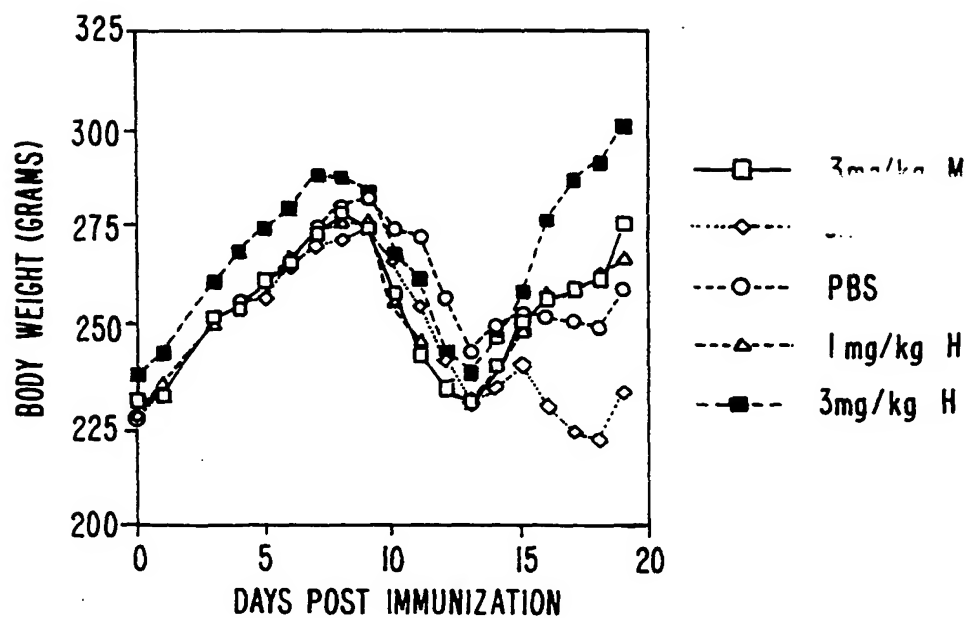


FIG. 16.

SECRETED "SECRETED"